

Proposals funded from the FY 2001 joint Sea Grant-Fish and Wildlife Service Ballast Water Technology Demonstration Program competition

Sea Grant:

BW Treatment and Management: a Paradigm Shift in Ballasting: the Possibility of a Ballast-free Ship
PI: M. Parsons (University of Michigan)

Ballast Residuals in NOBOB Vessels in the Chesapeake Bay: Biological and Chemical Characterization and a Comparison with Great Lakes Patterns
PI: F. Dobbs (Old Dominion University)

Fish and Wildlife Service:

Demonstration of Ship-board Ozone Treatment and Process-control Strategies for the Control and Mitigation of ANS
PI: W. Cooper (University of North Carolina)

Proposals funded from the FY 2001 Sea Grant Aquatic Nuisance Species Competition

ANS RESEARCH PROPOSALS

<u>TITLE</u>	<u>PI</u>	<u>Associated SG Program</u>
Achieving the benefits of Biological Control of <i>Spartina alterniflora</i> in Willapa Bay; WA	Grevstad	WA
An Evaluation of Barriers for Preventing the Spread of Bighead Carp to the Great Lakes	Pegg	IL-IN
Aquatic Nuisance Species (ANS): Assessments of Economic Impacts and Evaluations of Rational Management Alternatives	Hoagland	WHOI
Aquatic Nuisance Species: Applied Research Project for the Development of a Cercopagis Interdiction/Prevention Protocol	Baker	NY
Aquatic Nuisance Species: Effect of Zebra Mussel Colonization of Soft Sediments on Foraging Success and Habitat Choice by Benthic Fish	Marsden	NY
Aquatic Nuisance Species: Effects of Invasive Invertebrate Predators on the Food Webs of the Great Lakes -- IL-IN	Caceres	IL-IN

Component

Aquatic Nuisance Species: Effects of Invasive Invertebrate Predators on the Food Webs of the Great Lakes -- NY Component	Schulz	NY
Aquatic Nuisance Species: Metapopulation Dynamics and Control of the Zebra Mussel in Freshwater and Estuarine Systems: The Effects of Hydrodynamics; Larval Supply; and Embayments	Padilla	NY
Aquatic Nuisance Species: Metapopulation Dynamics and Control of the Zebra Mussel in Freshwater and Estuarine Systems: The Effects of Hydrodynamics; Larval Supply; and Embayments	Padilla	IL-IN
Aquatic Nuisance Species: Abundance of Microorganisms and Pathogens Associated with Biofilms inside Ballast-water Tanks and their Capacity to act as 'Vertical Seed Banks'	Drake	VA
Aquatic Nuisance Species: Coastal Dispersal of Invasive Species in Domestic Ballast Water	Hines	MD
Aquatic Nuisance Species: Ecological and Commercial Impact and Control of the Non-indigenous Marine Gastropod <i>Rapana venosa</i>	Mann	VA
Aquatic Nuisance Species: Understanding the Dynamics of Invasion Pathways to New England	Smith	MIT
Assessing the Potential of Nuisance Jellyfish Predation on the Eggs and Larvae of Red Drum and Red Snapper in the Northern Gulf of Mexico	Graham	MS/AL
Assessment of the Invasion Potential of Imported Seaweeds and Early Warning Outreach to prevent Bioinvasion	Murray	USC
Control and Mitigation: Ozone Treatment of Ballast Water	Cooper	NC
Genetic; Distributional; and Ecological Characterization of Recent Swamp Eel Introductions in Florida	Collins	FL
Impacts and Dynamics of Two Introduced Drills Consuming Cultured and Threatened Oysters	Ruesink	WA
Impacts; barriers; and control of round and tubenose gobies in the Great Lakes	Jude	MI
Physiological Adaptation and Invasion Success: A Comparison of Native and Invasive Species of Bay Mussels (<i>Mytilus trossulus</i> and <i>M. galloprovincialis</i>) in the Central California Hybrid Zone	Somero	CA
Physiological Tolerances and Nonchemical Control Strategies for the Introduced Marine Macrofouling Asian Green Mussel; <i>Perna viridis</i>	Hicks	TX

Using Stable Isotopes to discern food web impacts of a non-native species; the Chinese mitten crab; in San Francisco Bay

Resh

USC

ANS OUTREACH PROPOSALS

<u>TITLE</u>	<u>PI</u>	<u>Associated SG Program</u>
A national training initiative for federal; state; and tribal stocking programs and private aquaculturists and baitfish industries using a ANS-HACCP approach from the Great Lakes -- IL-IN Component	Charlebois	IL-IN
A national training initiative for federal; state; and tribal stocking programs and private aquaculturists and baitfish industries using a ANS-HACCP approach from the Great Lakes -- MI Component	Klepinger	MI
A national training initiative for federal; state; and tribal stocking programs and private aquaculturists and baitfish industries using a ANS-HACCP approach from the Great Lakes -- MN Component	Gunderson	MN
A national training initiative for federal; state; and tribal stocking programs and private aquaculturists and baitfish industries using a ANS-HACCP approach from the Great Lakes -- OH Component	Snyder	OH
A national training initiative for federal; state; and tribal stocking programs and private aquaculturists and baitfish industries using a ANS-HACCP approach from the Great Lakes -- PA Component	Obert	PA
Aquatic Nuisance Species Attack Pack -- MI Component	Klepinger	MI
Aquatic Nuisance Species Attack Pack -- WI Component	Moy	WI
Aquatic Nuisance Species Education Boxes for the West Coast	Heimowitz	OR
Aquatic Nuisance Species: Great Lakes Aquatic Invasive Species Publications	O'Neill	NY
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- IL-IN Component	Goettel	IL-IN
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- LA Component	Blanchard	LA

ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- MI Component	Klepinger	MI
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- MN Component	Zhuikov	MN
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- NY Component	Domske	NY
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- OH Component	Fortner	OH
ESCAPE from Exotics: Break Out of Your Classroom Routine by Exploring the Interesting World of Exotic Aquatic Species -- PA Component	Danielski	PA
Northeast Regional Marine Aquatic Invasive Species Database and Web Page	Baker	MIT (OTHER)
Southeast Aquatic Nuisance Species (ANS) Education and Outreach Network: Expansion Project	Dindo	MS/AL
The Great Lakes Sea Grant Network Raises Public Awareness of ANS Through Species WATCH ID Cards: Don't Leave Home Without 'Em	Jensen	MN
Transferring Sea Grant Aquatic Nuisance Species Research and Outreach Results to the Nation Using a World Wide Web Server: A Continuing Project; 2001-2003 -- IL-IN Component	Miller	IL-IN
Transferring Sea Grant Aquatic Nuisance Species Research and Outreach Results to the Nation Using a World Wide Web Server: A Continuing Project; 2001-2003 -- WI Component	Moy	WI
Using Mass Media to Inform Anglers About Invasive Species -- MI Component	Klepinger	MI
Using Mass Media to Inform Anglers About Invasive Species -- PA Component	Curcio	PA
Using Mass Media to Inform Anglers About Invasive Species -- WI Component	Moy	WI
West Coast Ballast Outreach Project	Cassell	CA